

Washington Savannah River Company

Radiological Performance Indicators



**Washington Savannah River Company
Savannah River Site
Aiken, SC 29808**

Summary

<u>Exposure</u>	QTR Actual	CY Actual	CY Goal
Collective Total Effective Dose Equivalent (Person-rem)	32	32	128
Maximum Individual (mrem)	0.298	0.298	<1.000¹
Personnel Contamination Cases			
Skin	1	1	8*
Personal Effects	1	1	
Internal Exposure			
≥ 100 mrem CEDE	0²	0	N/A
≥ 500 mrem CEDE	0	0	0

**Combined Skin + Personnel Effects*

Note¹: SWMF miners granted higher ACL of 800 mrem & FCA TRU operators granted higher ACL of 1000 mrem. Site ACL is 500 mrem

Note²: Internal dose identified in 1st Qtr. 2008 and assigned to 3rd Qtr. 2007

2008 ALARA Goals

CY08 ALARA Goal Summary	D&D	Defense Projects	H-Area Material Disposition	F-Area Closure Project	Waste Solidification Projects	Liquid Waste Disposition Projects	Laboratories	Nuclear Materials Management	Solid Waste & Infrastructure ¹	SRNL	Miscellaneous ¹	WSI ²	SRS Total
Cumulative Exposure (rem)													
Base Routine Operations	1.00	0.28	7.22	0.50	8.615	18.54	5.30	12.00	31.00	4.44	2.00	2.00	90.895
Total Special Work Operations		0.35	5.50		3.650	25.345	0.50			1.60			36.945
1 st Quarter		0.025	1.5			10.055	0.25			0.40			12.230
2 nd Quarter		0.025	1.5		2.35	7.73	0.25			0.40			12.255
3 rd Quarter		0.075	1.1		1.2	1.98				0.40			4.755
4 th Quarter		0.225	1.4		0.10	5.58				0.40			7.705
Max. Individual Exposure Goal (mrem)	500*												
Personnel Contamination Events													
Personal Effects and Skin	8												

Notes:

- 1) Miscellaneous – defined as those facilities with exposure goals < 1 rem to include SGCP - 0.050 rem base + 0.100 rem special; SFP- 0.500 rem base + 0.300 rem special; and other minor contributors to site total.
- 2) WSI-Base Routine Operations is the total dose estimate from all facilities.

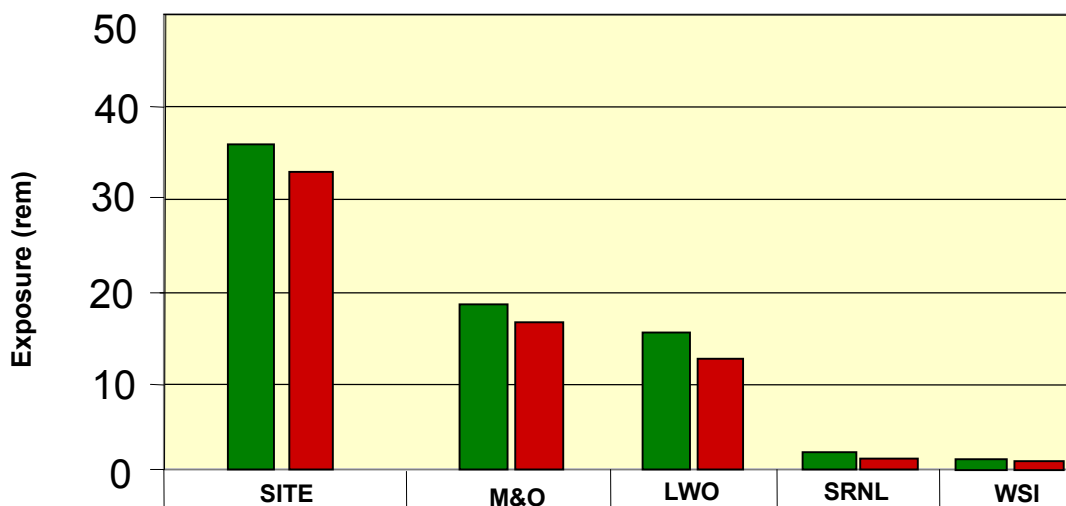
Additional Note: DOE-SR ACL – 150 mrem

*ACL increases were approved by the Site ALARA Committee on 3/25/08 for FCA TRU operators and SWM drum miners. FCA TRU ACL is 1000 mrem and SWM ACL is 800 mrem.

Maximum Whole Body Exposure CY08

Organization	Project	Facility	Exposure TEDE (mrem)	ACL
1) LWO	Waste Solidification	Z-Area	298	500
2) M&O	Solid Waste	FCA	293	1000
3) M&O	Solid Waste	FCA	290	1000
4) LWO	Waste Solidification	Z-Area	275	500
5) LWO	Waste Solidification	Z-Area	269	500
6) M&O	Solid Waste	FCA	250	1000
7) M&O	Solid Waste	FCA	229	1000
8) LWO	Liquid Waste	HTF	229	500
9) LWO	Liquid Waste	HTF	229	500
10) M&O	Solid Waste	FCA	227	1000

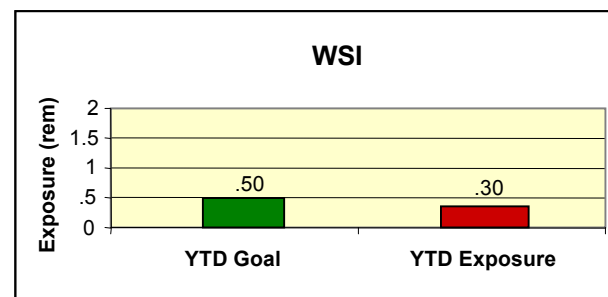
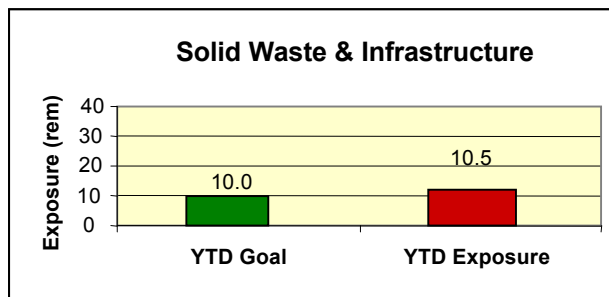
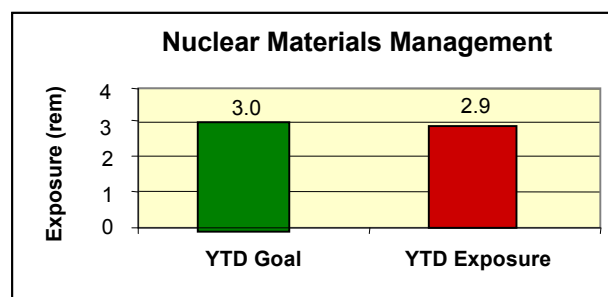
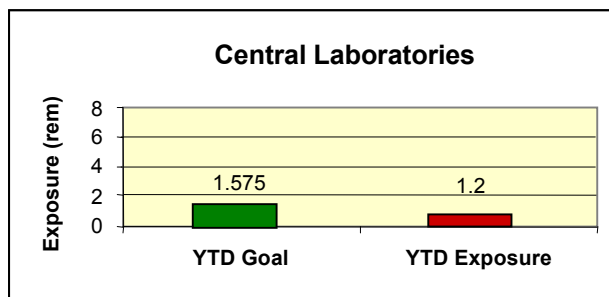
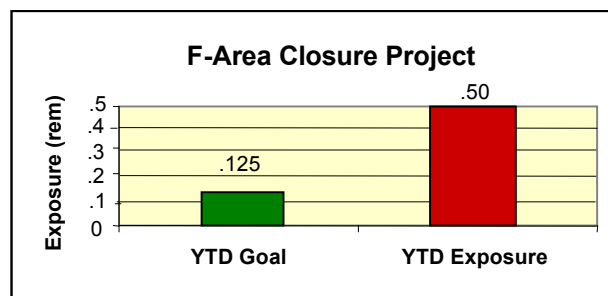
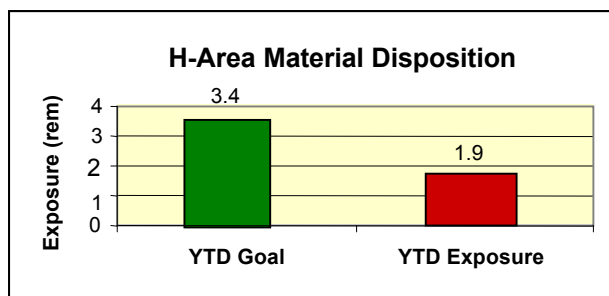
Site Cumulative Exposure vs. Goal (YTD)



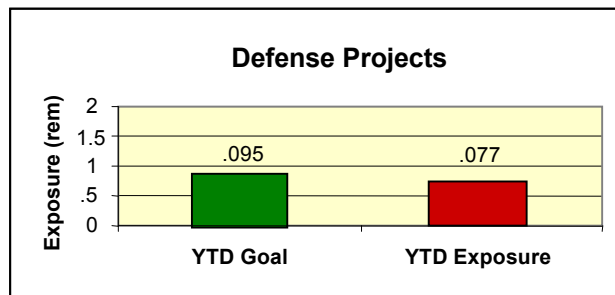
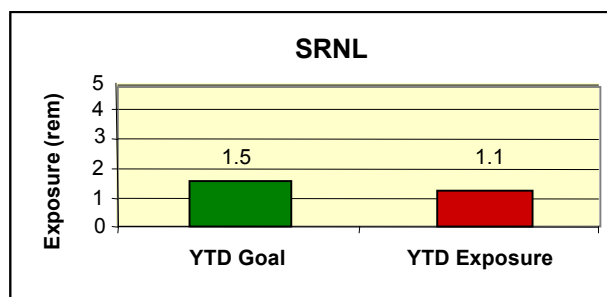
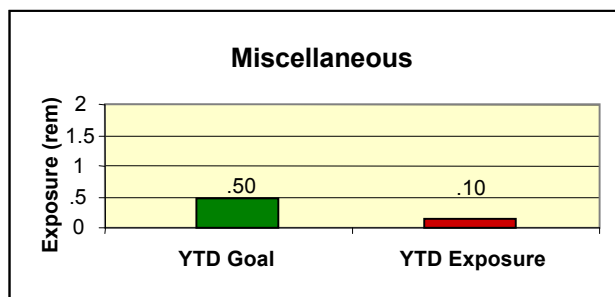
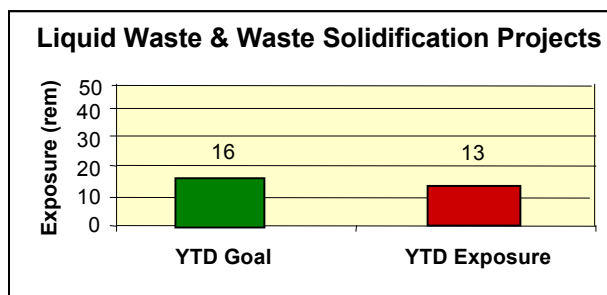
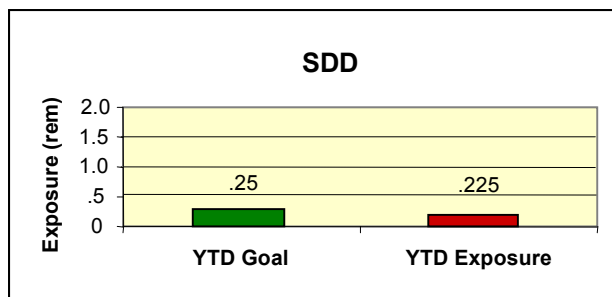
■ YTD Goal	36	19	16	1.5	0.5
■ YTD Exposure	32	17	13	1.1	0.3

Organization

YTD Cumulative Exposure vs. Goal by Facility



YTD Cumulative Exposure vs. Goal by Facility



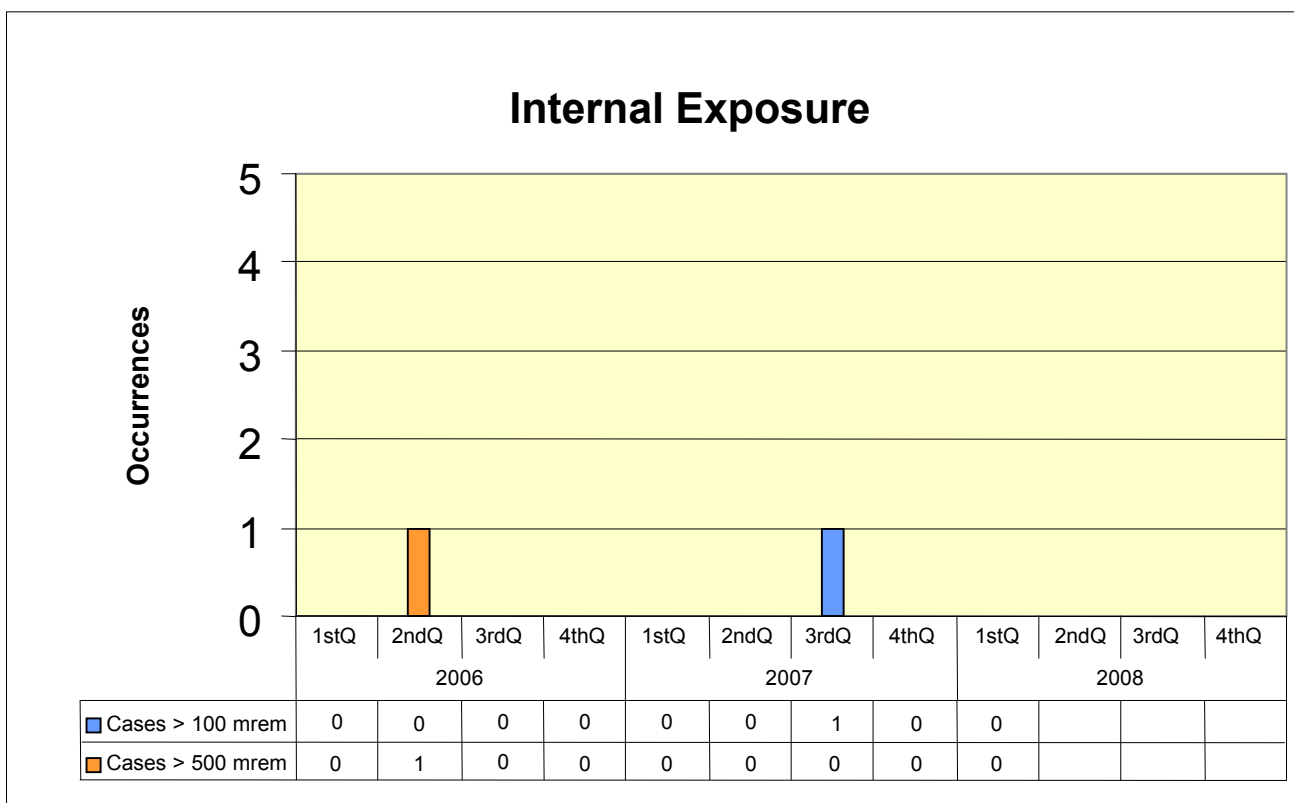
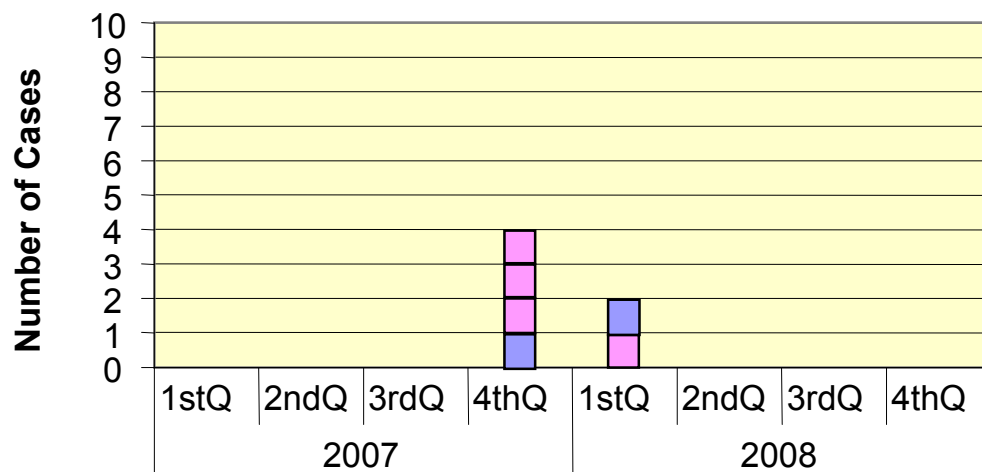


Table of Corresponding ORPS Reports		
ORPS Number	Criteria	Date
1) EM-SR-WSRC-CLAB-2006-0004	6C	4/24/06
2) EM-SR-WSRC-SW&I-2008-NR01*	6C	3/6/08
* Dose identified in 1 st Qtr. 2008 and assigned in 3 rd Qtr. 2007		

Personnel Contamination Cases (Skin and Personal Effects)



■ Skin	0	0	0	3	1			
■ Personal Effects	0	0	0	1	1			

Table of Corresponding ORPS Reports*

ORPS Number	Criteria	Date
1) EM-SR-WSRC-LTA-2007-0004	6D3	11/30/07
2) EM-SR-WSRC-SW&I-2007-0014	6D3	12/1/07
3) EM-SR-WSRC-HTANK-2007-0009 (2 cases)	6D3	12/22/07
4) EM-SR-WSRC-WVIT-2008-0006	6D3	2/29/08
5) EM-SR-WSRC-FTANK-2008-0002	6D3	3/24/08

*There were 13 non-ORPS reportable contamination cases in 2007. There are 3 non-ORPS reportable contamination cases in 2008.